#3

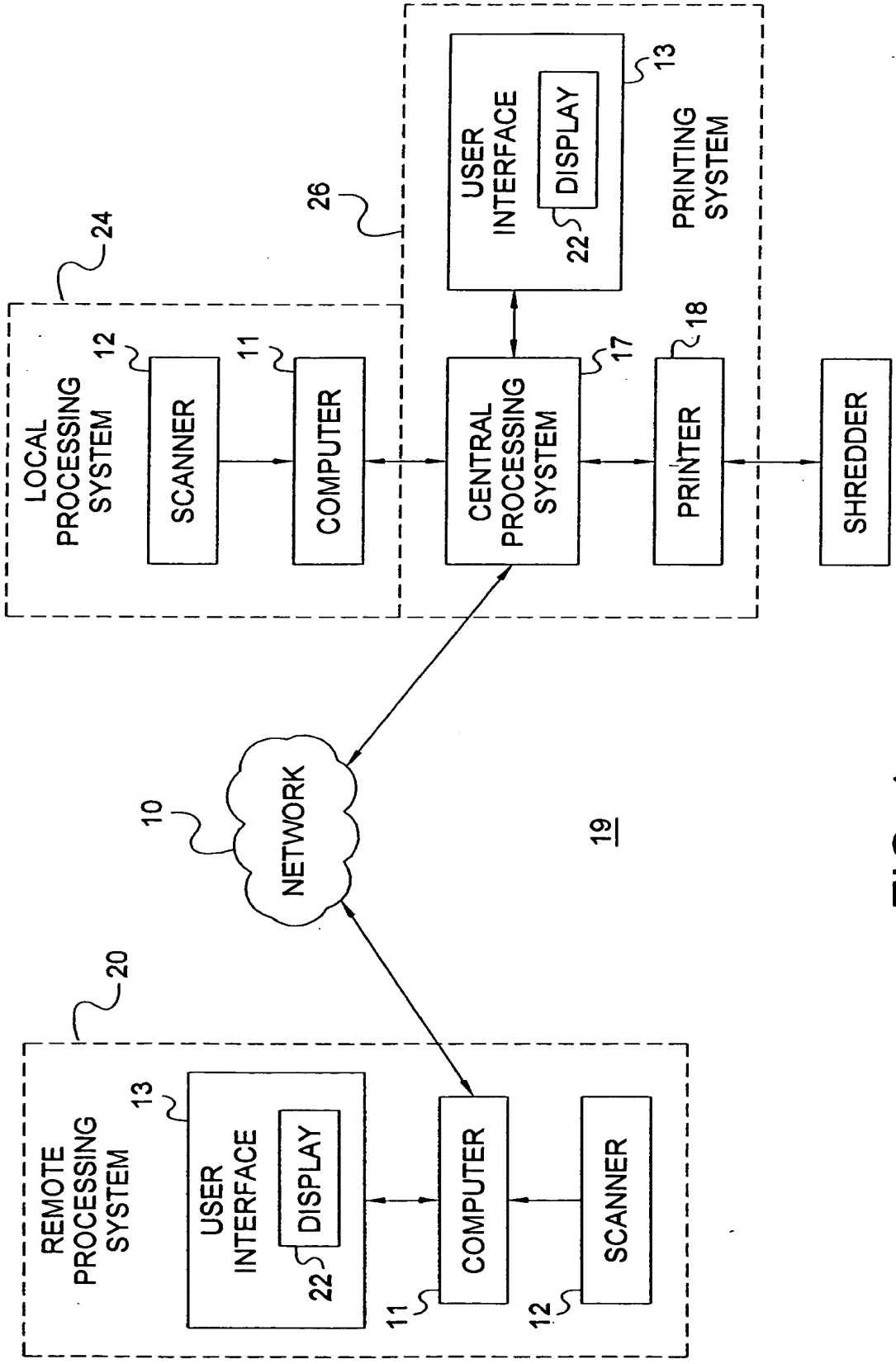

LOCAL PROCESSING SYSTEM
24
SCANNER
12
COMPUTER
11
26
USER INTERFACE
DISPLAY
22
13
PRINTING SYSTEM
CENTRAL PROCESSING SYSTEM
17
PRINTER
18
SHREDDER
NETWORK
10
19
REMOTE PROCESSING SYSTEM
20
USER INTERFACE
DISPLAY
22
13
COMPUTER
11
SCANNER
12

FIG. 1

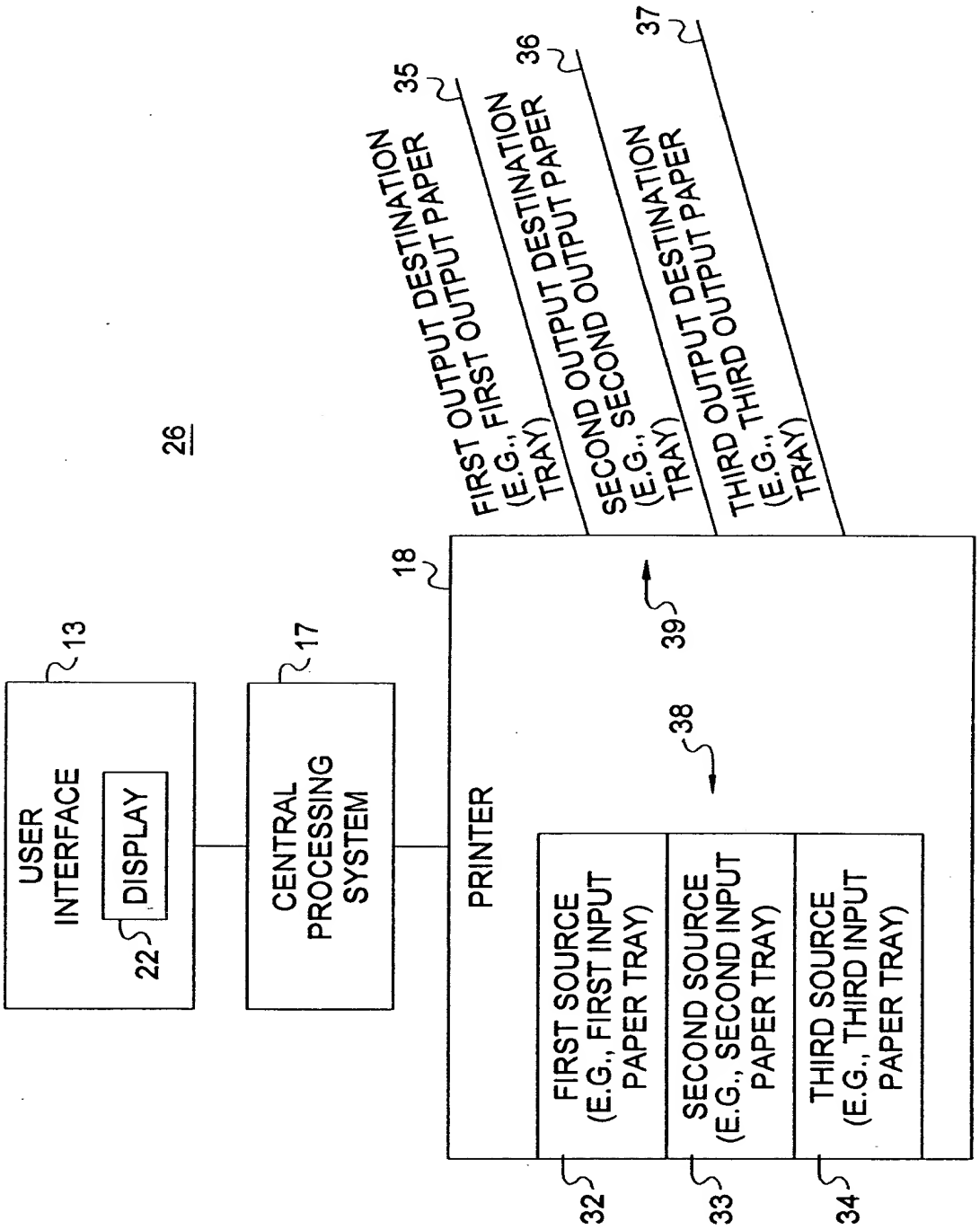

26
USER INTERFACE
13
DISPLAY
22
CENTRAL PROCESSING SYSTEM
17
PRINTER
18
FIRST SOURCE (E.G., FIRST INPUT PAPER TRAY)
SECOND SOURCE (E.G., SECOND INPUT PAPER TRAY)
THIRD SOURCE (E.G., THIRD INPUT PAPER TRAY)
32
33
34
38
39
FIRST OUTPUT DESTINATION (E.G., FIRST OUTPUT PAPER TRAY)
35
SECOND OUTPUT DESTINATION (E.G., SECOND OUTPUT PAPER TRAY)
36
THIRD OUTPUT DESTINATION (E.G., THIRD OUTPUT PAPER TRAY)
37

FIG. 2

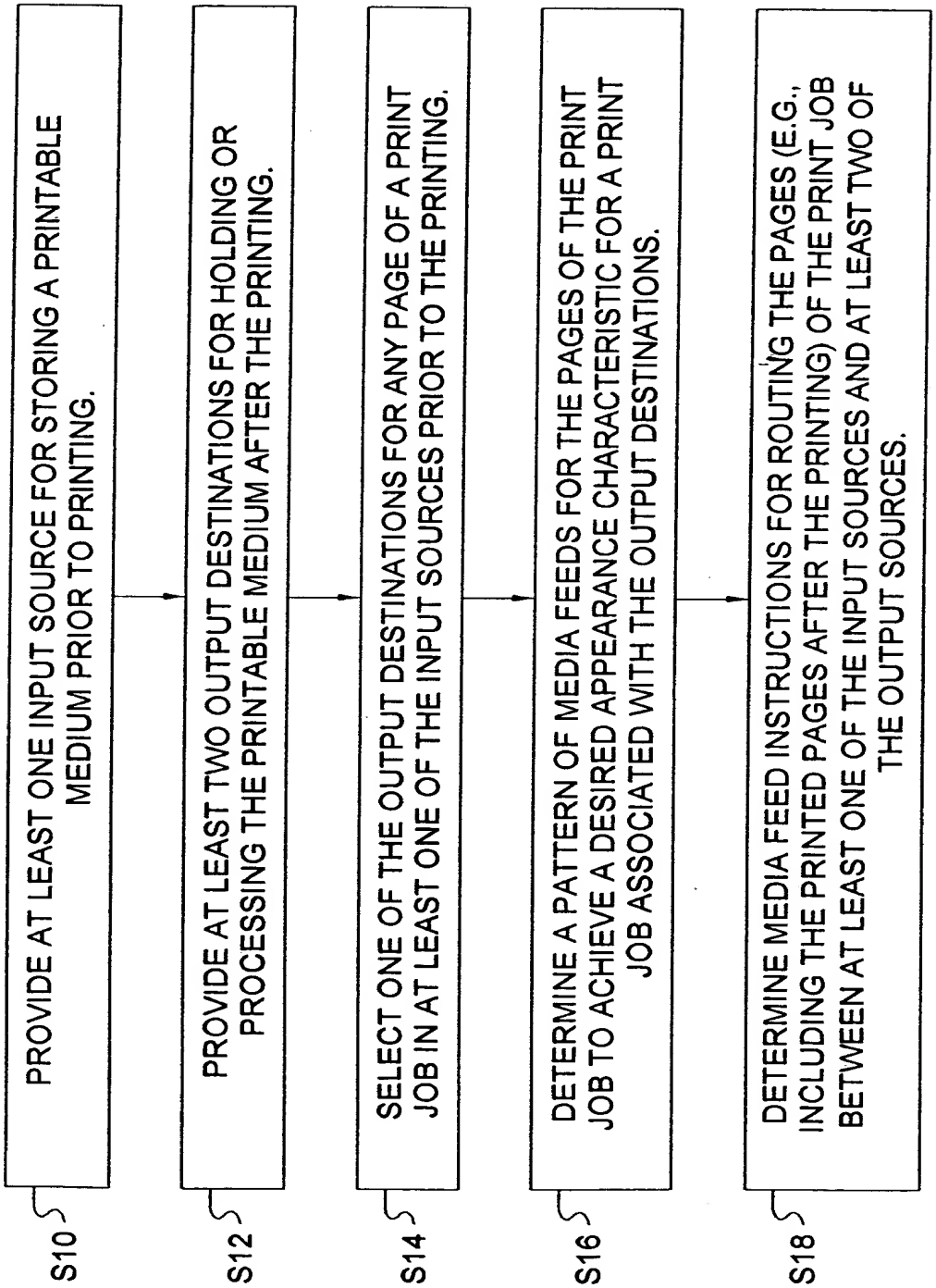
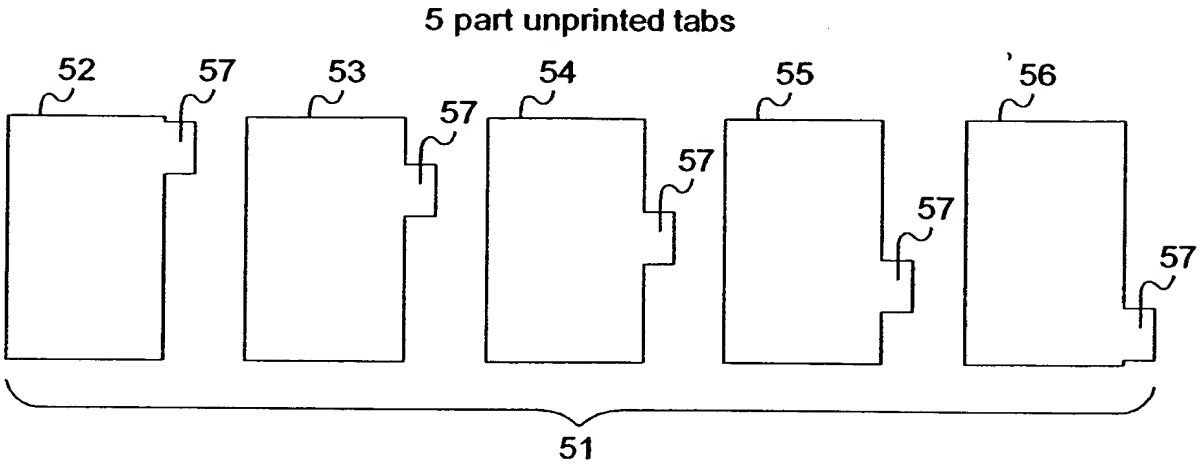
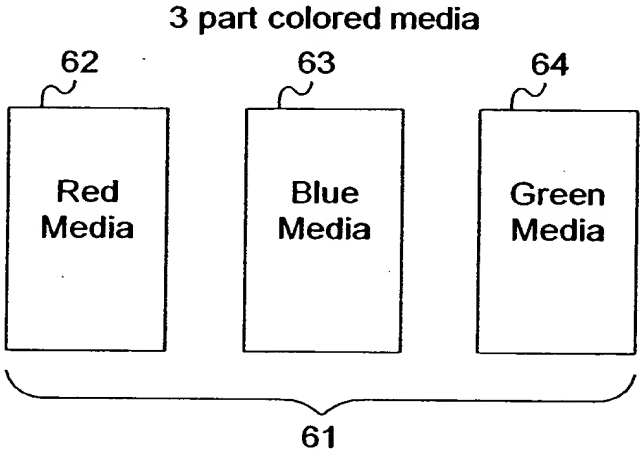

PROVIDE AT LEAST ONE INPUT SOURCE FOR STORING A PRINTABLE MEDIUM PRIOR TO PRINTING.
S10
PROVIDE AT LEAST TWO OUTPUT DESTINATIONS FOR HOLDING OR PROCESSING THE PRINTABLE MEDIUM AFTER THE PRINTING.
S12
SELECT ONE OF THE OUTPUT DESTINATIONS FOR ANY PAGE OF A PRINT JOB IN AT LEAST ONE OF THE INPUT SOURCES PRIOR TO THE PRINTING.
S14
DETERMINE A PATTERN OF MEDIA FEEDS FOR THE PAGES OF THE PRINT JOB TO ACHIEVE A DESIRED APPEARANCE CHARACTERISTIC FOR A PRINT JOB ASSOCIATED WITH THE OUTPUT DESTINATIONS.
S16
DETERMINE MEDIA FEED INSTRUCTIONS FOR ROUTING THE PAGES (E.G., INCLUDING THE PRINTED PAGES AFTER THE PRINTING) OF THE PRINT JOB BETWEEN AT LEAST ONE OF THE INPUT SOURCES AND AT LEAST TWO OF THE OUTPUT SOURCES.
S18

FIG. 3


5 part unprinted tabs
52
57
53
57
54
57
55
57
56
57
51


3 part colored media
62
63
64
Red Media
Blue Media
Green Media
61

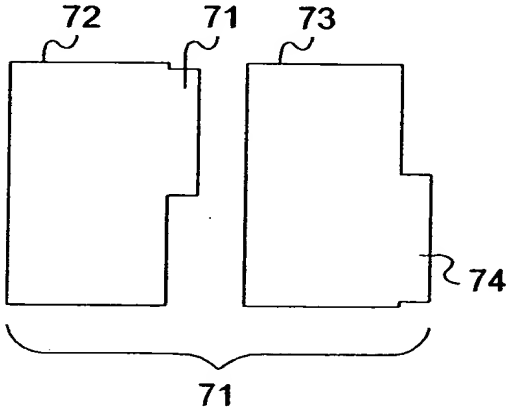

2 part printed tabs
72
71
73
74
71

FIG. 4

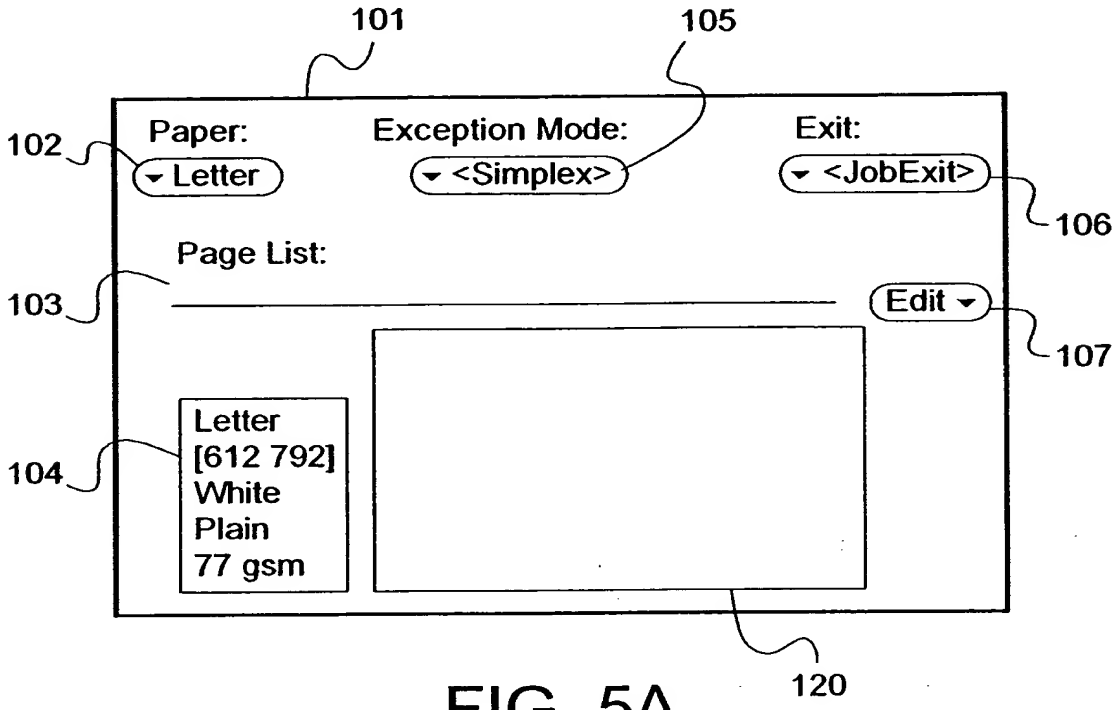

101
105
102
Paper:
Letter
Exception Mode:
<Simplex>
Exit:
<JobExit>
106
Page List:
103
Edit
107
Letter
[612 792]
White
Plain
77 gsm
104
120

FIG. 5A

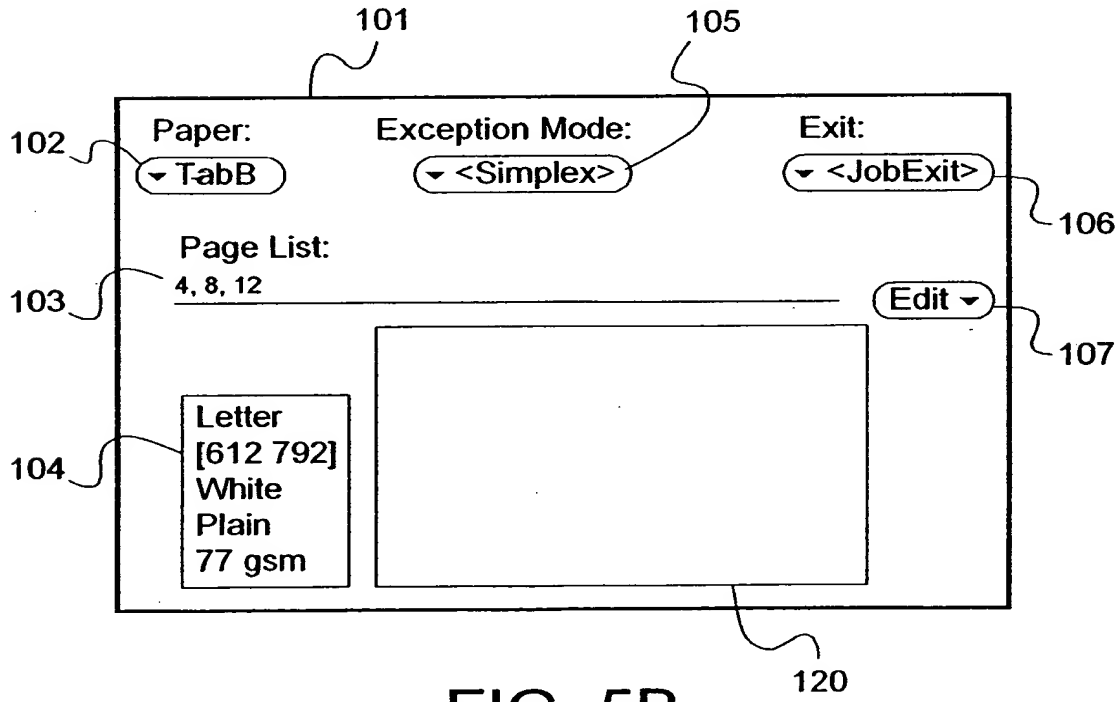

101
105
102
Paper:
TabB
Exception Mode:
<Simplex>
Exit:
<JobExit>
106
Page List:
4, 8, 12
103
Edit
107
Letter
[612 792]
White
Plain
77 gsm
104
120

FIG. 5B

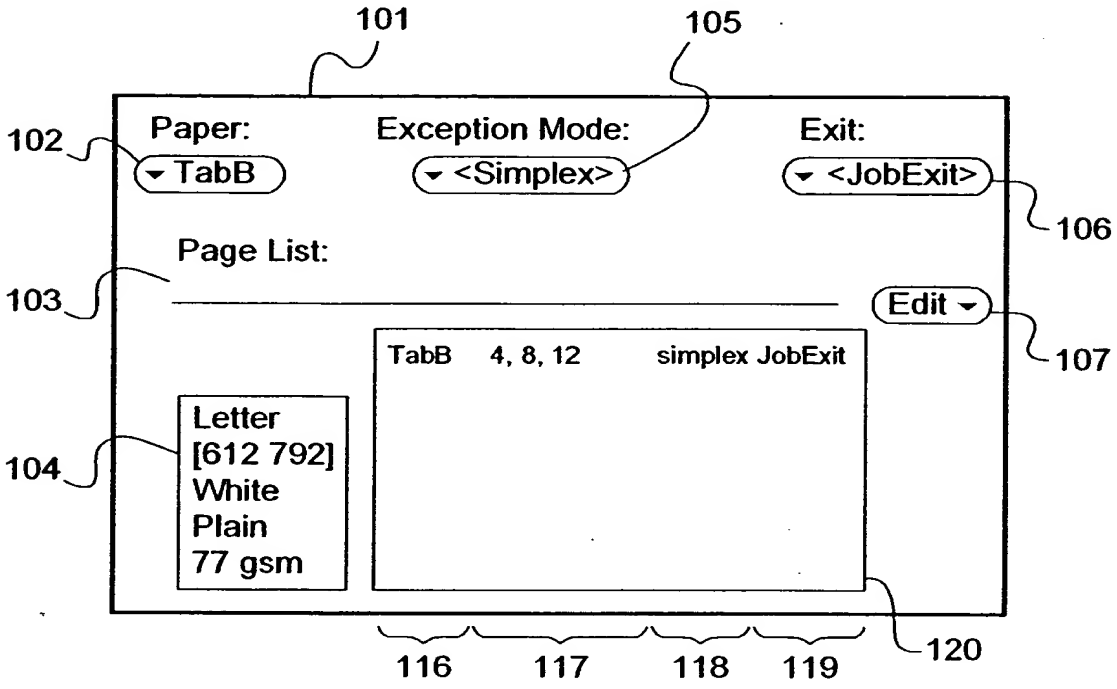

101
105
102
Paper:
TabB
Exception Mode:
<Simplex>
Exit:
<JobExit>
106
Page List:
103
Edit
107
TabB 4, 8, 12 simplex JobExit
Letter
[612 792]
White
Plain
77 gsm
104
116
117
118
119
120

FIG. 5C

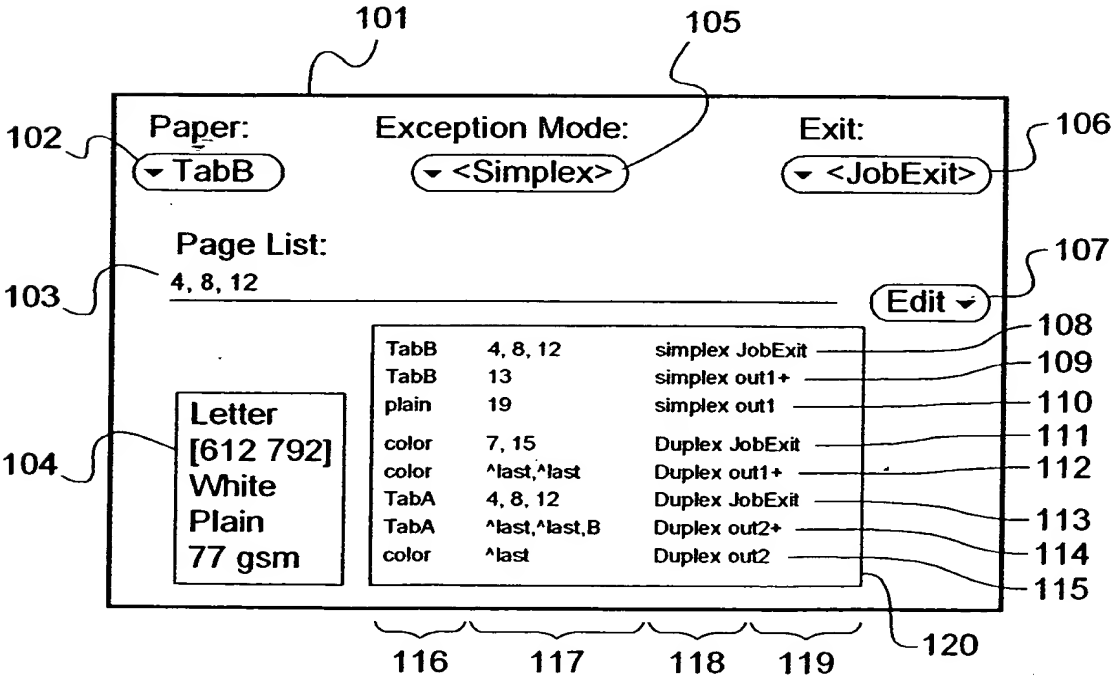

101
105
102
Paper:
TabB
Exception Mode:
<Simplex>
Exit:
<JobExit>
106
Page List:
4, 8, 12
103
Edit
107
TabB 4, 8, 12 simplex JobExit
TabB 13 simplex out1+
plain 19 simplex out1
color 7, 15 Duplex JobExit
color ^last,^last Duplex out1+
TabA 4, 8, 12 Duplex JobExit
TabA ^last,^last,B Duplex out2+
color ^last Duplex out2
108
109
110
111
112
113
114
115
Letter
[612 792]
White
Plain
77 gsm
104
116
117
118
119
120

FIG. 5D

FIG. 6A

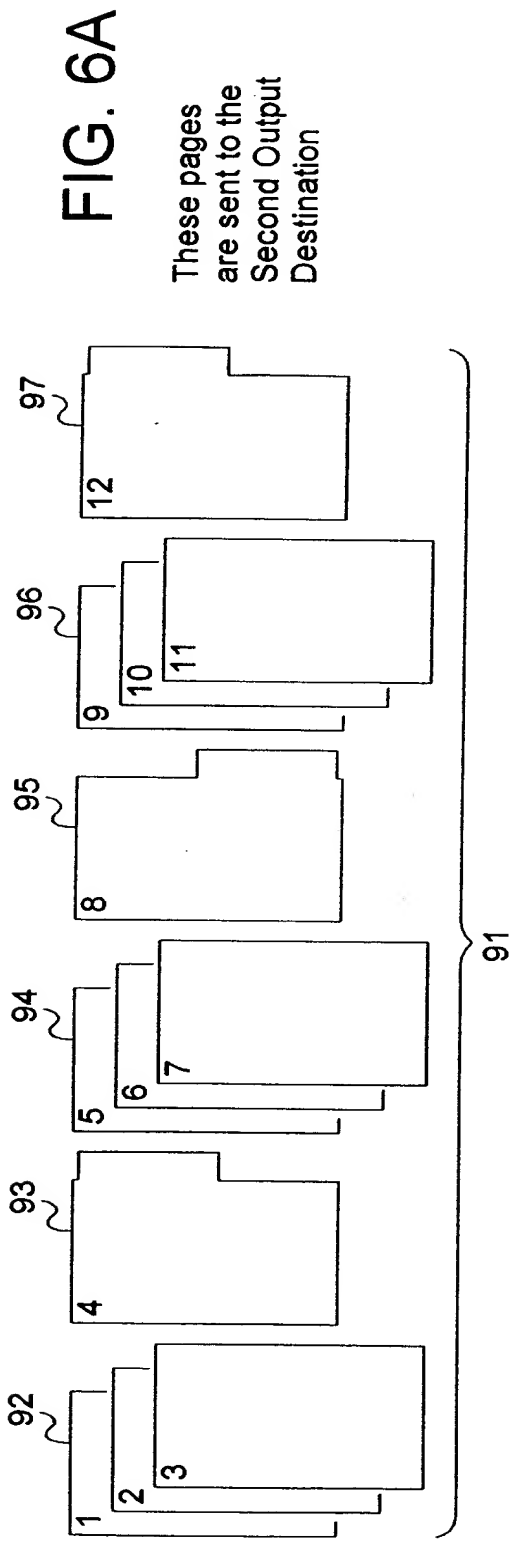


FIG. 6B

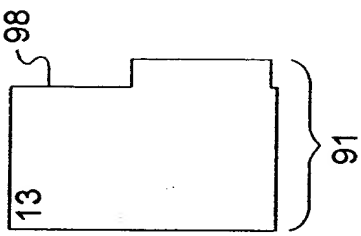


FIG. 6C

Table 1: Example of a MediaExit Pattern

Page Identifier	Printing Indicator	Output Destination
4	True	Second Output Dest.
8	True	Second Output Dest.
12	True	Second Output Dest.
13	True	First Output Dest.

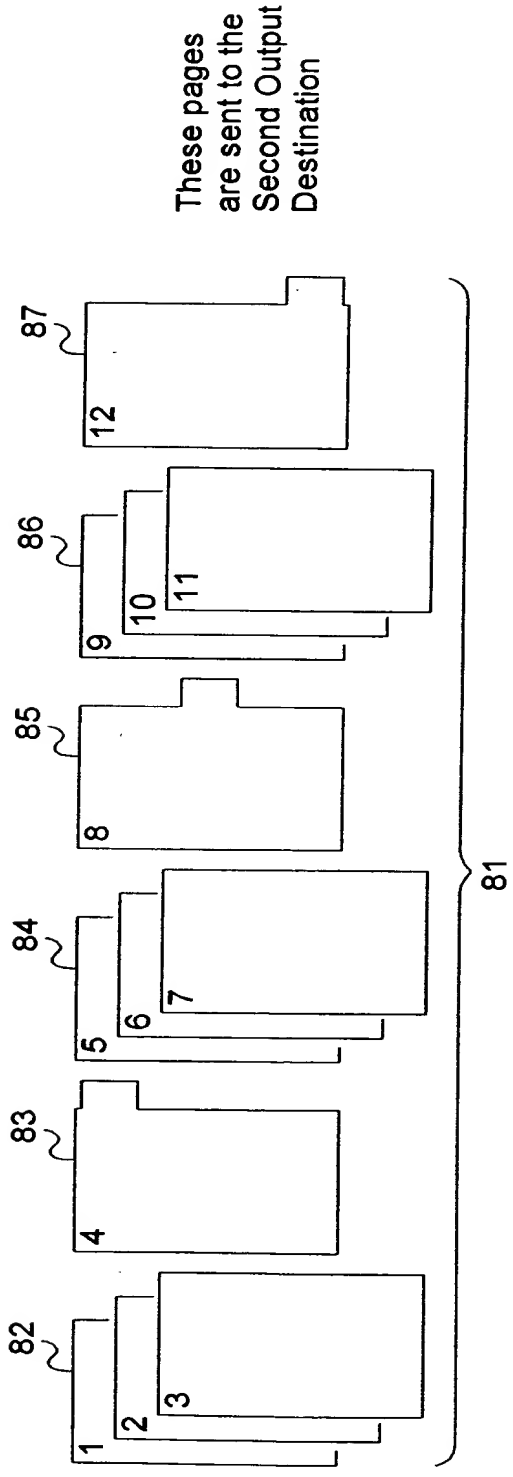

These pages are sent to the Second Output Destination
87
12
86
9
10
11
85
8
84
5
6
7
83
4
82
1
2
3
81

FIG. 7A

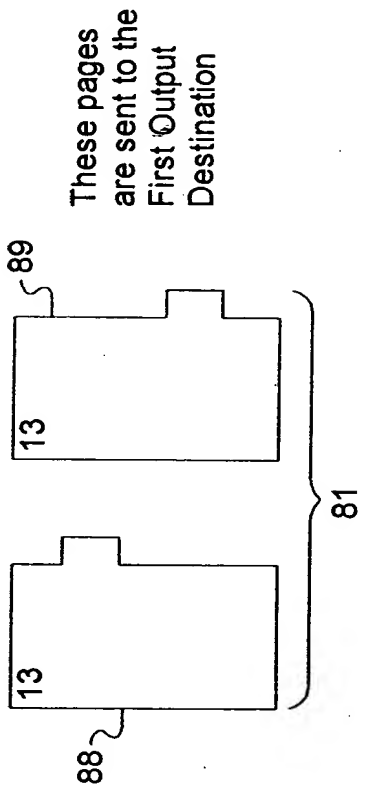

These pages are sent to the First Output Destination
89
13
13
88
81

FIG. 7B

Table 2: Example of a Balanced MediaExit Pattern

Page Identifier	Printed On?	Output Destination
4	True	Second Output Dest.
8	False	First Output Dest.
8	True	Second Output Dest.
12	False	First Output Dest.
12	True	Second Output Dest.

FIG. 7C

Table 3: Example of an Unbalanced MediaExit Pattern

Page Identifier	Printed On?	Output Destination
4	True	<JobExit>
8	True	<JobExit>
12	True	<JobExit>
last	False	Output Destination 1
last	False	Output Destination 1

FIG. 7D

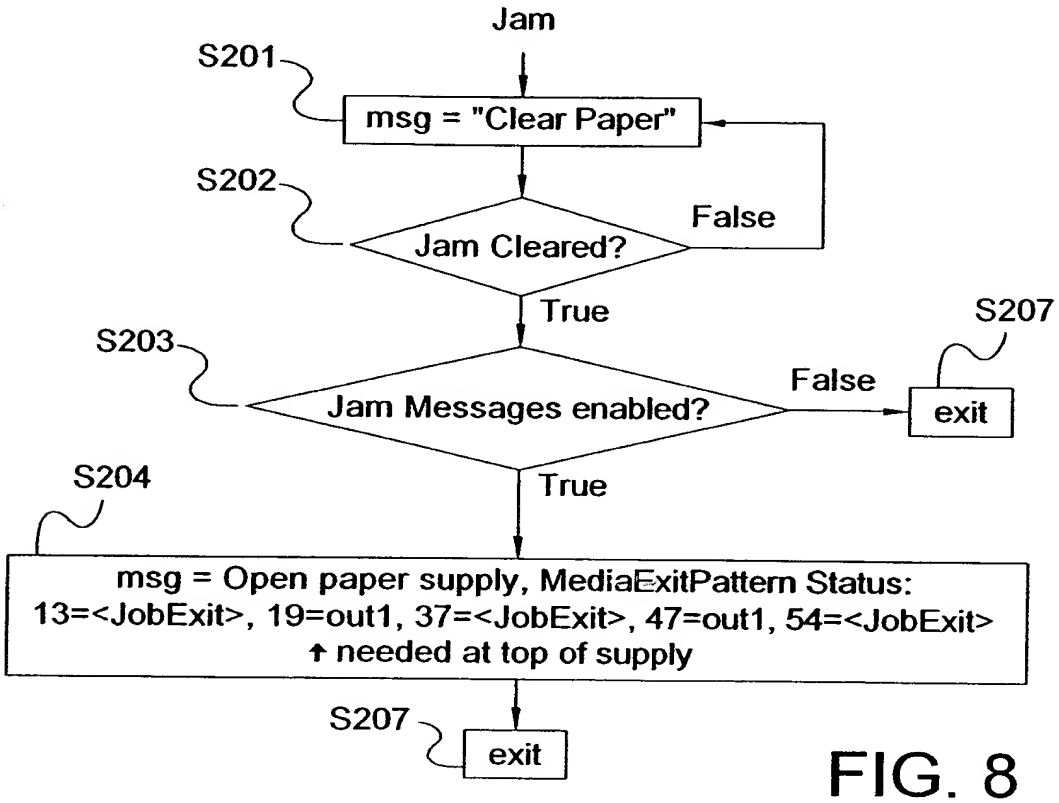

Jam
S201
msg = "Clear Paper"
S202
Jam Cleared?
False
True
S203
Jam Messages enabled?
False
S207
exit
True
S204
msg = Open paper supply, MediaExitPattern Status:
13=<JobExit>, 19=out1, 37=<JobExit>, 47=out1, 54=<JobExit>
↑ needed at top of supply
S207
exit

FIG. 8

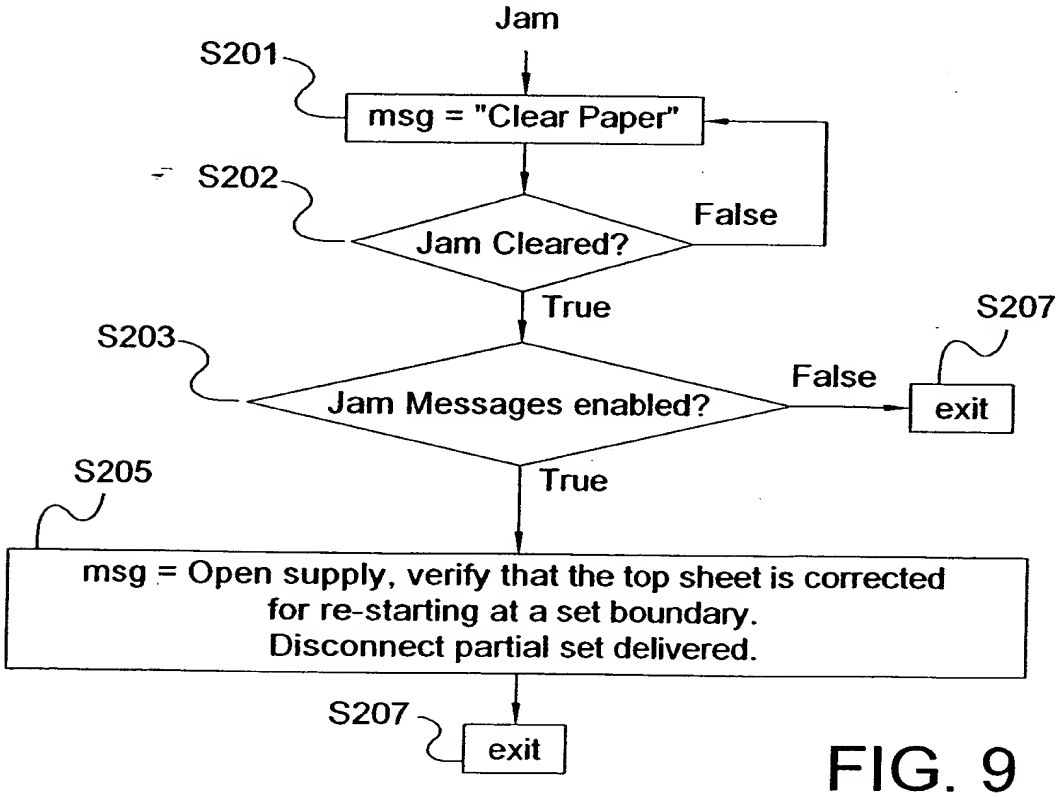

Jam
S201
msg = "Clear Paper"
S202
Jam Cleared?
False
True
S203
Jam Messages enabled?
False
S207
exit
True
S205
msg = Open supply, verify that the top sheet is corrected
for re-starting at a set boundary.
Disconnect partial set delivered.
S207
exit

FIG. 9

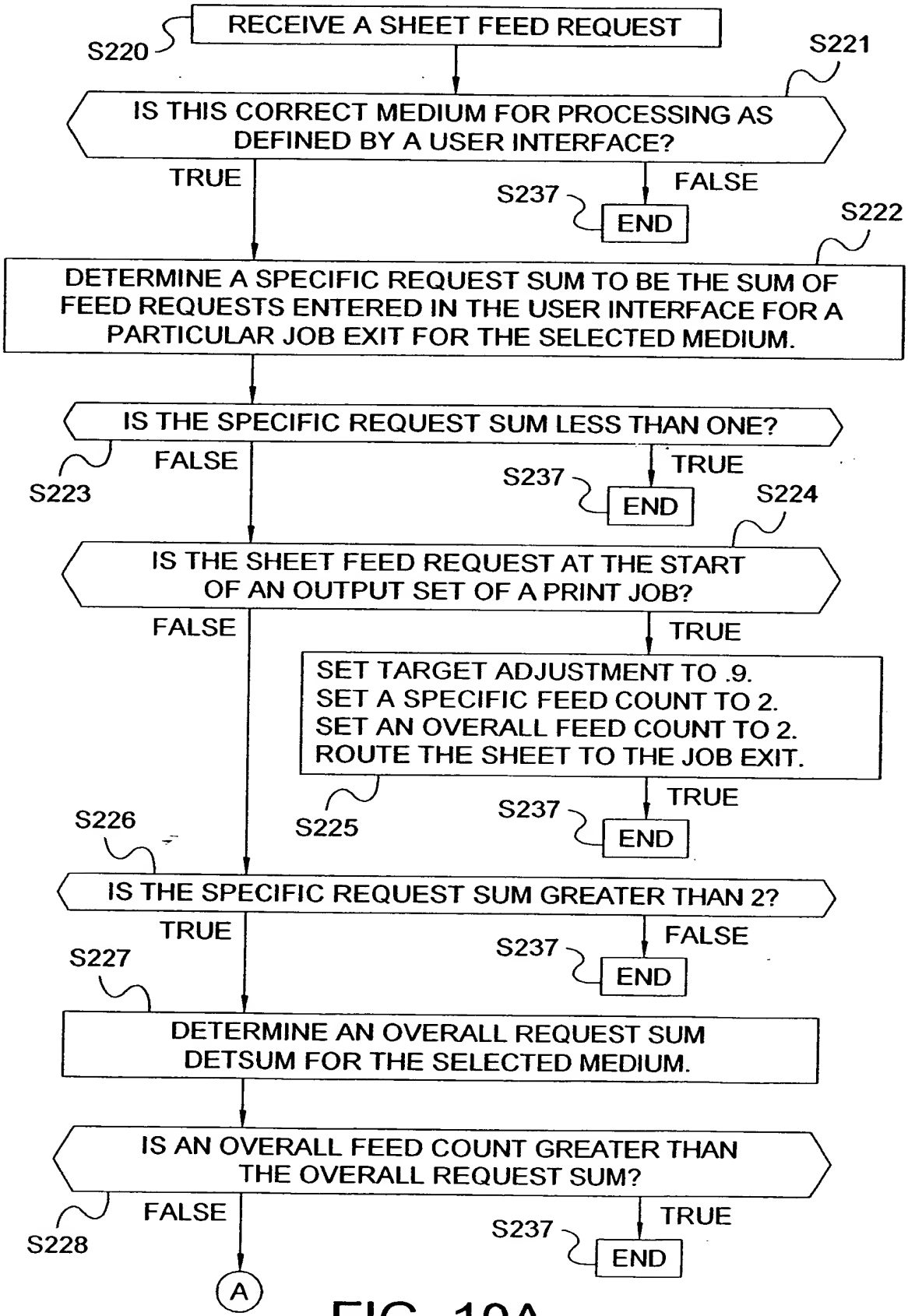

RECEIVE A SHEET FEED REQUEST
S220
S221
IS THIS CORRECT MEDIUM FOR PROCESSING AS DEFINED BY A USER INTERFACE?
TRUE
FALSE
S237
END
S222
DETERMINE A SPECIFIC REQUEST SUM TO BE THE SUM OF FEED REQUESTS ENTERED IN THE USER INTERFACE FOR A PARTICULAR JOB EXIT FOR THE SELECTED MEDIUM.
IS THE SPECIFIC REQUEST SUM LESS THAN ONE?
S223
FALSE
TRUE
S237
END
S224
IS THE SHEET FEED REQUEST AT THE START OF AN OUTPUT SET OF A PRINT JOB?
FALSE
TRUE
SET TARGET ADJUSTMENT TO .9.
SET A SPECIFIC FEED COUNT TO 2.
SET AN OVERALL FEED COUNT TO 2.
ROUTE THE SHEET TO THE JOB EXIT.
S225
TRUE
S237
END
S226
IS THE SPECIFIC REQUEST SUM GREATER THAN 2?
TRUE
FALSE
S237
END
S227
DETERMINE AN OVERALL REQUEST SUM DETSUM FOR THE SELECTED MEDIUM.
IS AN OVERALL FEED COUNT GREATER THAN THE OVERALL REQUEST SUM?
S228
FALSE
TRUE
S237
END
A

FIG. 10A

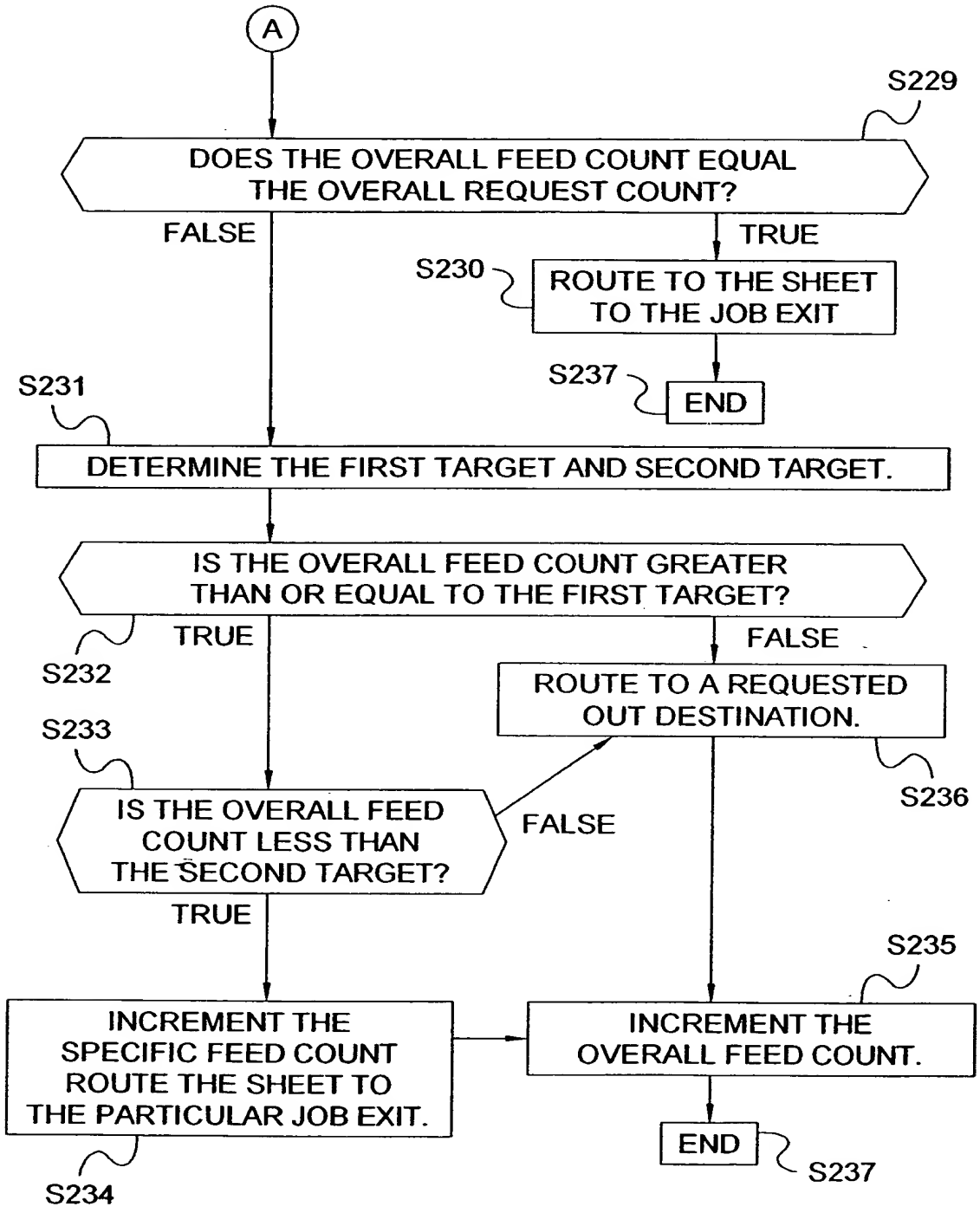

A
S229
DOES THE OVERALL FEED COUNT EQUAL THE OVERALL REQUEST COUNT?
FALSE
TRUE
S230
ROUTE TO THE SHEET TO THE JOB EXIT
S237
END
S231
DETERMINE THE FIRST TARGET AND SECOND TARGET.
IS THE OVERALL FEED COUNT GREATER THAN OR EQUAL TO THE FIRST TARGET?
TRUE
FALSE
S232
ROUTE TO A REQUESTED OUT DESTINATION.
S233
S236
IS THE OVERALL FEED COUNT LESS THAN THE SECOND TARGET?
FALSE
TRUE
S235
INCREMENT THE SPECIFIC FEED COUNT ROUTE THE SHEET TO THE PARTICULAR JOB EXIT.
INCREMENT THE OVERALL FEED COUNT.
END
S237
S234

FIG. 10B

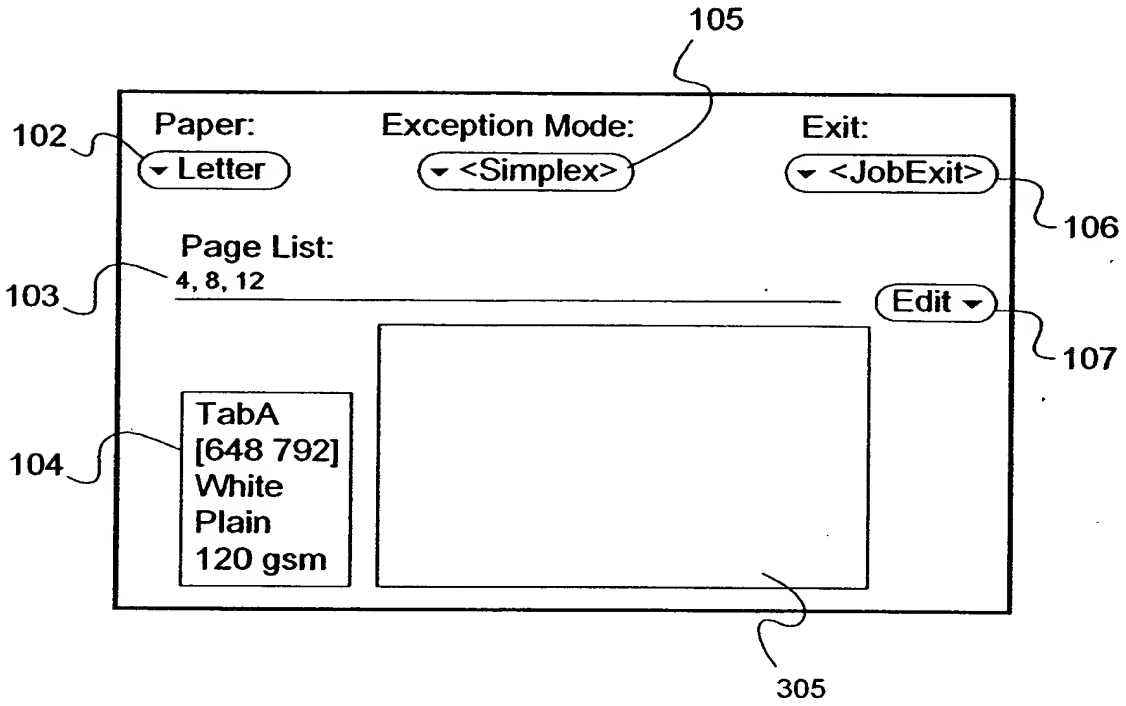

105
102
Paper:
Letter
Exception Mode:
<Simplex>
Exit:
<JobExit>
106
Page List:
4, 8, 12
103
Edit
107
TabA
[648 792]
White
Plain
120 gsm
104
305

FIG. 11

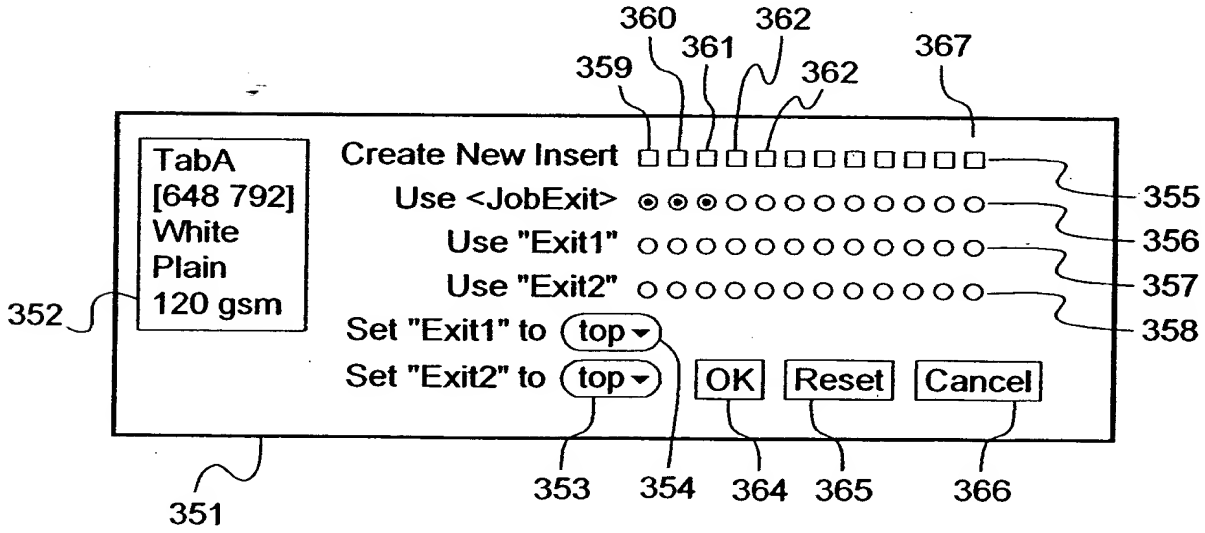

360
362
361
359
362
367
TabA
[648 792]
White
Plain
120 gsm
352
Create New Insert
Use <JobExit>
Use "Exit1"
Use "Exit2"
355
356
357
358
Set "Exit1" to
top
Set "Exit2" to
top
OK
Reset
Cancel
351
353
354
364
365
366

FIG. 13

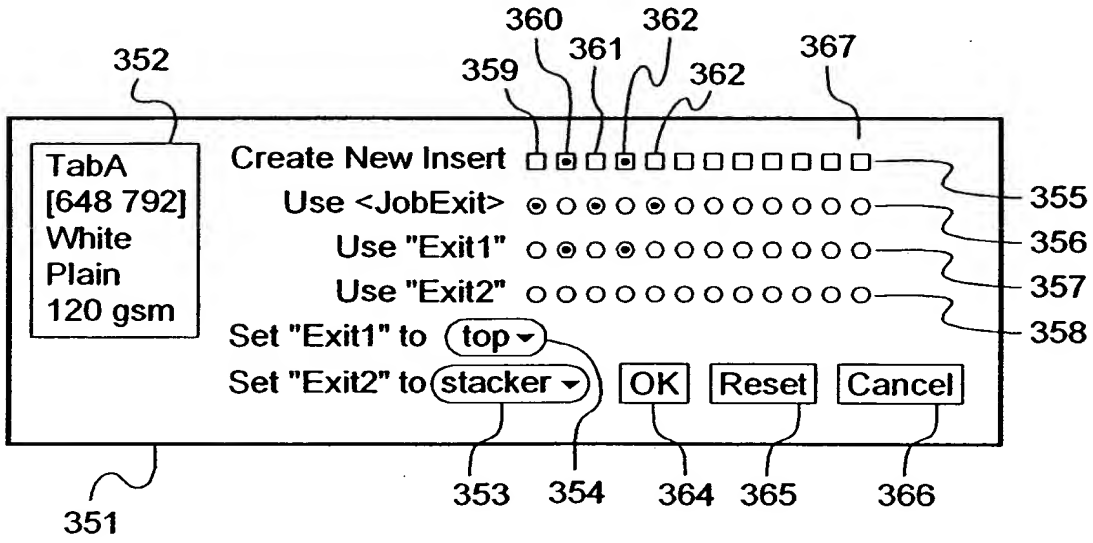

352
360
362
361
359
362
367
TabA
[648 792]
White
Plain
120 gsm
Create New Insert
Use <JobExit>
Use "Exit1"
Use "Exit2"
Set "Exit1" to top
Set "Exit2" to stacker
OK
Reset
Cancel
355
356
357
358
351
353
354
364
365
366

FIG. 14

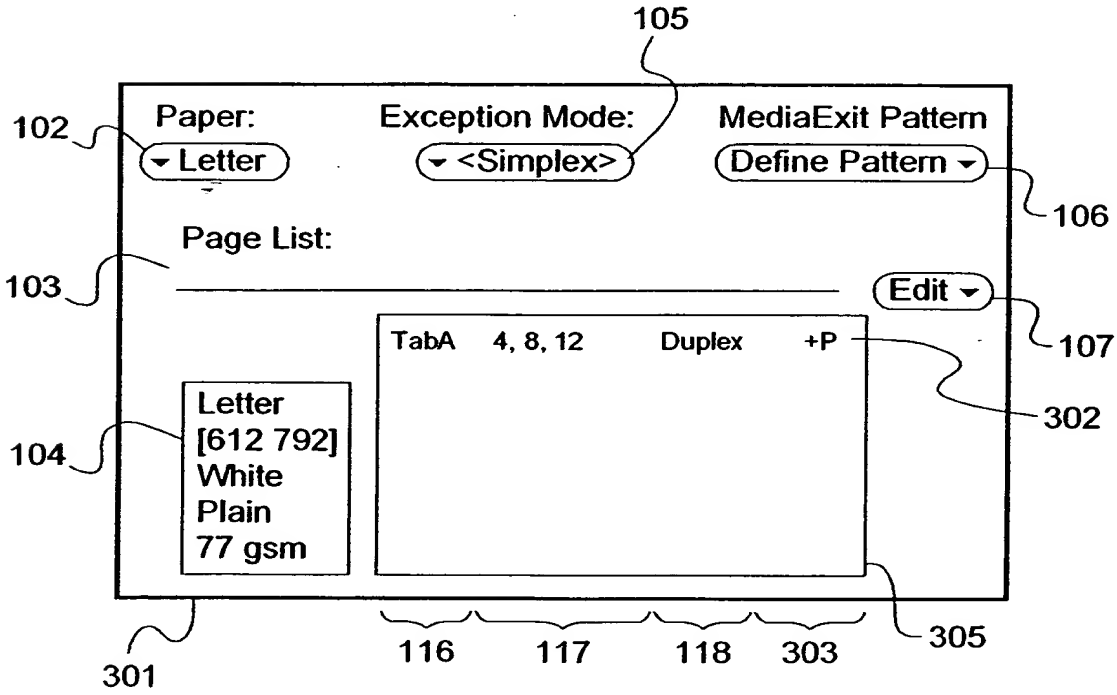

105
102
Paper:
Letter
Exception Mode:
<Simplex>
MediaExit Pattern
Define Pattern
106
Page List:
103
Edit
107
TabA 4, 8, 12 Duplex +P
302
Letter
[612 792]
White
Plain
77 gsm
104
301
116
117
118
303
305

FIG. 12